
APPENDIX 1-D

Air Quality Supporting Information

Appendix 1-D-1 General Conformity Analysis

March 9, 2023

General conformity is a key component of the federal Clean Air Act (CAA) strategy intended to ensure federal actions are consistent in achieving and maintaining the National Ambient Air Quality Standards (NAAQS) and that such actions are consistent with applicable state implementation plans (SIPs) for air quality. A Proposed Action's consistency with general conformity would ensure consistency with the CAA.

Section 176(c) of the federal CAA contains requirements that apply specifically to federal agency actions, including actions receiving federal funding, to ensure that their actions are consistent with the CAA. General conformity applicability pertaining to the Proposed Action is codified in 40 CFR Part 93.153(b).

Federal agencies are required to evaluate their proposed actions to ensure that they (1) do not cause or contribute to new violations of any federal ambient air quality standards, (2) do not increase the frequency or severity of any existing violations of federal ambient air quality standards, and (3) do not delay the timely attainment of federal ambient air quality standards. To this end, the USEPA's general conformity rule requires a formal conformity determination document for federally sponsored or funded actions in nonattainment or maintenance areas when the net increase in direct and indirect emissions of nonattainment or maintenance pollutants exceed specified *de minimis* thresholds.

A federal action is exempt from general conformity requirements if the total emissions resulting from the action are equal to or less than the *de minimis* thresholds. Thus, the action's calculated emissions are compared against established *de minimis* emission levels based on the nonattainment status for each applicable criteria pollutant in the area of concern to determine the relevant compliance requirements.

The Imperial County portion of the Proposed Project is currently in attainment for all NAAQS, except for ozone (Marginal), PM_{2.5} (Moderate, and PM₁₀ (Serious), and the Riverside County portion of the proposed project is in attainment for all NAAQS except for ozone (Severe) and PM₁₀ (Serious) (USEPA 2021). Table D-1-1 defines the *de minimis* thresholds for nonattainment areas.

Table D-1-1. *De Minimis* Thresholds in Nonattainment Areas

Pollutant	Degree of Non-Attainment	<i>De Minimis</i> Level (tons per year)
Ozone	Serious	50
	Severe	25
	Extreme	10
	Marginal and Moderate (outside an ozone transport region)	100
	Marginal and Moderate (inside an ozone transport region)	50 (VOC) 100 (NO _x)
Carbon monoxide	All	100
Particulate matter	Moderate	100
	Serious	70
SO ₂ or NO ₂	All	100
Lead	All	25

Notes:

NO = nitrogen monoxide, NO₂ = nitrogen dioxide, NOx = nitrogen oxides (NO and NO₂), SO₂ = sulfur dioxide, VOC = volatile organic compound

To determine the significance of the Proposed Project with respect to general conformity, emissions for the Proposed Project and Alternative 5 were calculated. The resulting emissions were compared against the conformity *de minimis* thresholds, which are applicable for the most stringent, nonattainment status conditions for Imperial and Riverside Counties. Alternative 5 was selected because it represents the worst-case scenario for project construction emissions and, therefore, emissions from all other alternatives would be less than those for Alternative 5. A summary of emissions resulting from the Proposed Project for construction in 2023, 2024, and 2025 is presented in Table D-1-2. A summary of emissions resulting from Alternative 5 for construction in 2023, 2024, 2025, 2026, and 2027 is presented in Table D-1-3. These tables also provide the conformity *de minimis* thresholds as well as the significance thresholds for the South Coast Air Quality Management District (SCAQMD) and the Imperial County Air Pollution Control District (ICAPCD) for comparison with construction emissions. For all pollutants, the resulting calculated emissions are below the *de minimis* thresholds and significance thresholds and, therefore, the Proposed Project and alternatives are exempt from general conformity requirements.

Table D-1-2. Proposed Project Emissions

Project Phase	VOCs	NO_x	CO	SO_x	PM₁₀	PM_{2.5}	CO_{2e}
2023 Annual (TPY) (MTPY for CO _{2e})	0.053	0.991	1.231	0.002	4.776	0.555	0.053
2023 Construction Emissions (lbs/day)	0.986	18.186	22.622	0.039	24.805	3.397	0.986
2024 Annual (TPY) (MTPY for CO _{2e})	0.128	2.382	2.9546	5.12E-03	4.8477	0.6175	0.128
2024 Construction Emissions (lbs/day)	0.983	18.182	22.590	0.039	24.805	3.397	0.983
2025 Annual (TPY) (MTPY for CO _{2e})	1.220E-02	2.273E-01	2.816E-01	4.900E-04	4.736E+00	5.204E-01	1.220E-02
2025 Construction Emissions (lbs/day)	9.805E-01	1.818E+01	2.256E+01	3.910E-02	2.480E+01	3.397E+00	9.805E-01
Conformity Threshold (TPY) (MTPY for CO _{2e})	25	25	None	None	70	100	None
SCAQMD Threshold (lbs/day) (MTPY for CO _{2e})	75	100	550	150	150	55	10,000
ICAPCD (lbs/day)	75	100	550	None	150	None	None
Significant?	No	No	No	No	No	No	No

Notes:

CO = carbon monoxide, CO_{2e} = carbon dioxide equivalent, ICAPCD = Imperial County Air Pollution Control District, lbs = pounds, MTPY = metric tons per year, NA = not applicable, NO = nitrogen monoxide, NO₂ = nitrogen dioxide, NO_x = nitrogen oxides (NO and NO₂), PM10 = particulate matter less than 10 microns in diameter, PM2.5 = particulate matter less than 2.5 microns in diameter, SCAQMD = South Coast Air Quality Management District, SO_x = sulfur oxides (includes sulfur dioxide [SO₂]), TPY = tons per year, VOC = volatile organic compound.

Table D-1-3. Alternative 5 Emissions

Project Phase	VOCs	NO_x	CO	SO_x	PM₁₀	PM_{2.5}	CO_{2e}
2023 Annual (TPY) (MTPY for CO _{2e})	0.053	0.991	1.231	0.002	11.673	1.300	189.169
2023 Construction Emissions (lbs/day)	0.986	18.186	22.622	0.039	24.807	3.399	NA
2024 Annual (TPY) (MTPY for CO _{2e})	0.128	2.382	2.955	0.005	11.748	1.362	454.078
2024 Construction Emissions (lbs/day)	0.983	18.182	22.590	0.039	24.807	3.397	N/A
2025 Annual (TPY) (MTPY for CO _{2e})	0.127	2.373	2.940	0.005	11.744	1.362	451.569
2025 Construction Emissions (lbs/day)	0.981	18.180	22.558	0.039	24.807	3.397	N/A
2026 Annual (TPY) (MTPY for CO _{2e})	0.127	2.372	2.936	0.005	11.744	1.362	450.996
2026 Construction Emissions (lbs/day)	0.978	18.177	22.531	0.039	24.807	3.397	NA
2027 Annual (TPY) (MTPY for CO _{2e})	0.039	0.736	0.910	0.002	11.660	1.288	139.808
2027 Construction Emissions (lbs/day)	0.976	18.175	22.507	0.039	24.807	3.397	N/A
Conformity Threshold (TPY) (MTPY for CO _{2e})	25	25	None	None	70	100	None
SCAQMD Threshold (lbs/day) (MTPY for CO _{2e})	75	100	550	150	150	55	10,000
ICAPCD Thresholds (lbs/day)	75	100	550	None	150	None	NA
Significant?	No	No	No	No	No	No	No

Notes:

CO = carbon monoxide, CO_{2e} = carbon dioxide equivalent, ICAPCD = Imperial County Air Pollution Control District, lbs = pounds, MTPY = metric tons per year, NA = not applicable, NO = nitrogen monoxide, NO₂ = nitrogen dioxide, NO_x = nitrogen oxides (NO and NO₂), PM₁₀ = particulate matter less than 10 microns in diameter, PM_{2.5} = particulate matter less than 2.5 microns in diameter, SCAQMD = South Coast Air Quality Management District, SO_x = sulfur oxides (includes sulfur dioxide [SO₂]), TPY = tons per year, VOC = volatile organic compound.

Emissions calculations were conducted using the California Emissions Estimator Model (CalEEMod). CalEEMod is widely accepted to provide a uniform platform to estimate potential emissions resulting from construction and operation activities of land use projects in California. The model takes user-entered data to calculate emissions using preprogrammed algorithms. The algorithms were designed to take information such as project size and length; vehicle types, operating hours, and trip lengths; and emissions mitigation criteria to calculate emissions of criteria pollutants and greenhouse gases.

The Proposed Project would generate primarily construction emissions. Operational emissions would be negligible and, therefore, were not calculated. The emissions calculations were based on (1) emissions generated from the combustion of fuel by the construction equipment and (2) fugitive emissions resulting from ground surface disturbance from construction equipment activities. Equipment considered in the calculations consisted of the following CalEEMod categories: one Scraper (367 horsepower [hp]), one Off-highway Truck (402 hp), one Other Construction Equipment (172 hp), and one Tractor/Loader/Backhoe (97 hp) with each piece of equipment being operated at a rate of 8 hours per day for the duration of the project. These construction equipment units are of same/similar power rating as those provided in Appendix C of the Draft EA (referred to in this appendix as Appendix D-3). Other sources of emissions used in the CalEEMod emissions calculations included on-road vehicles used by construction workers. The CalEEMod model runs for the Proposed Project and Alternative 5 are provided as part of this appendix.

Explanation of the Difference Between Emissions Calculations in Appendix D-1 (this appendix) and D-2 (Appendix C in the Draft EA) – Not Part of the Conformity Analysis

Appendix D-3 (Appendix C in the Draft EA) provided project construction emissions that were calculated manually using USEPA emissions factors but did not take into consideration mitigation to reduce emissions. Emissions calculated using CalEEMod included mitigations, such as the use of off-road construction equipment with Tier 3 engines as an average, water as dust control, and load factors for equipment engines. A comparison of the maximum criteria pollutant emissions as calculated using CalEEMod (presented in Tables D-1-2 and D-1-3) and the manual calculations presented in Appendix D-3 is presented in Table D-1-4 in tons per year (TPY) and pounds per day (lbs/day).

Table D-1-4. Comparison of the Maximum Criteria Pollutant Emissions

Project Comparison	VOCs	NO_x	CO	SO_x	PM₁₀	PM_{2.5}	CO2e
Proposed Project Maximum emissions (TPY) (MTPY for CO2e) Calculated using CalEEMod	0.128	2.382	2.955	0.005	4.848	0.618	454.078
Alternative 5 Maximum emissions (TPY) (MTPY for CO2e) Calculated using CalEEMod	0.128	2.382	2.955	0.005	11.748	1.362	454.078
Manual Calculations (TPY) from Appendix D-3	Not provided	41.55	8.95	2.75	72.25	2.21	1541.32
Proposed Project Maximum emissions (lbs/day)	0.986	18.186	22.622	0.039	24.805	3.397	NA
Alternative 5 Maximum emissions (lbs/day)	0.986	18.186	22.622	0.039	24.807	3.399	NA
Manual Calculations (lbs/day) from Appendix D-3	Not provided	280.98	60.55	18.6	19.94 (plus fugitive emissions which were not provided)	14.96	NA

Notes:

CO = carbon monoxide, CO2e = carbon dioxide equivalent, lbs = pounds, MTPY = metric tons per year, NA = not applicable, NO = nitrogen monoxide, NO₂ = nitrogen dioxide, NOx = nitrogen oxides (NO and NO₂), PM10 = particulate matter less than 10 microns in diameter, PM2.5 = particulate matter less than 2.5 microns in diameter, SO_x = sulfur oxides (includes sulfur dioxide [SO₂]), TPY = tons per year, VOC = volatile organic compound.

Possible reasons for the difference in emissions results between CalEEMod and manual calculations from Appendix D-3 include the following:

- > Emissions calculations in CalEEMod included off-road construction equipment with Tier 3 engines as an average, whereas the manual calculations may not have factored in emission reductions from tier engines.
- > Emissions calculations in CalEEMod included emission control measures for watering disturbed areas twice a day. This emissions control measure reduces particulate matter and is a requirement stipulated in ICAPCD Regulation VIII, Fugitive Dust Rules, and SCAQMD Rules 401, *Visible Emissions*; 402, *Nuisance*; 403, *Fugitive Dust*, 403.1, *Supplemental Fugitive Dust Control Requirements for Coachella Valley Sources*, 403.2, *Fugitive Dust from Large Roadway Projects*; Rule 404, *Particulate Matter – Concentration*.
- > Emissions calculations in CalEEMod included load factors. The load factor is defined as the ratio of the power an engine draws while in operation to its rated power. The manual calculations in Appendix D-3 do not appear to include load factors. Not including a load factor in the calculation would likely result in higher calculated emissions.

References

United States Environmental Protection Agency (USEPA). 2021. Nonattainment Areas for Criteria Pollutants. Accessed January 2023. Website: <https://www.epa.gov/green-book>.

Salton Sea - South Coast AQMD Air District, Annual

Salton Sea
South Coast AQMD Air District, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1,540.00	Acre	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	15			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - No operational emissions would be expected

Construction Phase - No building construction

Off-road Equipment - Equipment as provided

Grading - Total acres for PP 19800

Construction Off-road Equipment Mitigation - Engine Tier 4 for all engines

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	0.00	396.00
tblGrading	AcresOfGrading	396.00	19,800.00
tblLandUse	LandUseSquareFeet	67,082,400.00	0.00
tblLandUse	LotAcreage	1,540.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1006	0.9190	0.8777	2.1300e-003	10.5079	0.0387	10.5466	1.1360	0.0356	1.1716	0.0000	187.7061	187.7061	0.0585	0.0000	189.1694
2024	0.2339	2.0590	2.0804	5.1200e-003	10.5205	0.0861	10.6066	1.1394	0.0792	1.2186	0.0000	450.5628	450.5628	0.1406	0.0000	454.0789

2025	0.0204	0.1671	0.1897	4.9000e-004	10.5010	6.8900e-003	10.5079	1.1342	6.3400e-003	1.1405	0.0000	42.9184	42.9184	0.0134	0.0000	43.2538
Maximum	0.2339	2.0590	2.0804	5.1200e-003	10.5205	0.0861	10.6066	1.1394	0.0792	1.2186	0.0000	450.5628	450.5628	0.1406	0.0000	454.0789

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0534	0.9912	1.2308	2.1300e-003	4.7335	0.0423	4.7758	0.5125	0.0423	0.5548	0.0000	187.7059	187.7059	0.0585	0.0000	189.1692
2024	0.1280	2.3820	2.9546	5.1200e-003	4.7461	0.1016	4.8477	0.5159	0.1016	0.6175	0.0000	450.5623	450.5623	0.1406	0.0000	454.0784
2025	0.0122	0.2273	0.2816	4.9000e-004	4.7266	9.7000e-003	4.7363	0.5107	9.7000e-003	0.5204	0.0000	42.9184	42.9184	0.0134	0.0000	43.2537
Maximum	0.1280	2.3820	2.9546	5.1200e-003	4.7461	0.1016	4.8477	0.5159	0.1016	0.6175	0.0000	450.5623	450.5623	0.1406	0.0000	454.0784

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	45.43	-14.48	-41.91	0.00	54.94	-16.68	54.65	54.86	-26.79	52.06	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2023	10-31-2023	0.6147	0.6297
2	11-1-2023	1-31-2024	0.6015	0.6299
3	2-1-2024	4-30-2024	0.5626	0.6160
4	5-1-2024	7-31-2024	0.5750	0.6295
5	8-1-2024	10-31-2024	0.5751	0.6295
6	11-1-2024	1-31-2025	0.5475	0.6297
7	2-1-2025	4-30-2025	0.0214	0.0274
	Highest		0.6147	0.6299

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2023	2/4/2025	5	396	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 19800

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	1	0.00	81	0.73
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					10.4990	0.0000	10.4990	1.1336	0.0000	1.1336	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0976	0.9170	0.8534	2.0500e-003		0.0386	0.0386		0.0355	0.0355	0.0000	180.4546	180.4546	0.0584	0.0000	181.9136	
Total	0.0976	0.9170	0.8534	2.0500e-003	10.4990	0.0386	10.5376	1.1336	0.0355	1.1692	0.0000	180.4546	180.4546	0.0584	0.0000	181.9136	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.0100e-003	2.0600e-003	0.0243	8.0000e-005	8.9700e-003	6.0000e-005	9.0300e-003	2.3800e-003	6.0000e-005	2.4400e-003	0.0000	7.2515	7.2515	1.7000e-004	0.0000	7.2558	
Total	3.0100e-003	2.0600e-003	0.0243	8.0000e-005	8.9700e-003	6.0000e-005	9.0300e-003	2.3800e-003	6.0000e-005	2.4400e-003	0.0000	7.2515	7.2515	1.7000e-004	0.0000	7.2558	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					4.7245	0.0000	4.7245	0.5101	0.0000	0.5101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Off-Road	0.0504	0.9891	1.2066	2.0500e-003		0.0422	0.0422		0.0422	0.0422	0.0000	180.4544	180.4544	0.0584	0.0000	181.9134
Total	0.0504	0.9891	1.2066	2.0500e-003	4.7245	0.0422	4.7668	0.5101	0.0422	0.5524	0.0000	180.4544	180.4544	0.0584	0.0000	181.9134

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.0100e-003	2.0600e-003	0.0243	8.0000e-005	8.9700e-003	6.0000e-005	9.0300e-003	2.3800e-003	6.0000e-005	2.4400e-003	0.0000	7.2515	7.2515	1.7000e-004	0.0000	7.2558
Total	3.0100e-003	2.0600e-003	0.0243	8.0000e-005	8.9700e-003	6.0000e-005	9.0300e-003	2.3800e-003	6.0000e-005	2.4400e-003	0.0000	7.2515	7.2515	1.7000e-004	0.0000	7.2558

3.2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					10.4990	0.0000	10.4990	1.1336	0.0000	1.1336	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.2270	2.0544	2.0260	4.9400e-003	0.0860	0.0860		0.0791	0.0791	0.0000	433.7062	433.7062	0.1403	0.0000	437.2129	
Total	0.2270	2.0544	2.0260	4.9400e-003	10.4990	0.0860	10.5849	1.1336	0.0791	1.2127	0.0000	433.7062	433.7062	0.1403	0.0000	437.2129

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8600e-003	4.5100e-003	0.0544	1.9000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8600e-003	0.0000	16.8566	16.8566	3.8000e-004	0.0000	16.8660
Total	6.8600e-003	4.5100e-003	0.0544	1.9000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8600e-003	0.0000	16.8566	16.8566	3.8000e-004	0.0000	16.8660

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						4.7245	0.0000	4.7245	0.5101	0.0000	0.5101	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1212	2.3775	2.9002	4.9400e-003		0.1015	0.1015		0.1015	0.1015	0.0000	433.7057	433.7057	0.1403	0.0000	437.2124
Total	0.1212	2.3775	2.9002	4.9400e-003	4.7245	0.1015	4.8260	0.5101	0.1015	0.6116	0.0000	433.7057	433.7057	0.1403	0.0000	437.2124

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8600e-003	4.5100e-003	0.0544	1.9000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8600e-003	0.0000	16.8566	16.8566	3.8000e-004	0.0000	16.8660	
Total	6.8600e-003	4.5100e-003	0.0544	1.9000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8600e-003	0.0000	16.8566	16.8566	3.8000e-004	0.0000	16.8660	

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					10.4990	0.0000	10.4990	1.1336	0.0000	1.1336	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.1667	0.1849	4.7000e-004		6.8800e-003	6.8800e-003		6.3300e-003	6.3300e-003	0.0000	41.3733	41.3733	0.0134	0.0000	41.7079
Total	0.0198	0.1667	0.1849	4.7000e-004	10.4990	6.8800e-003	10.5058	1.1336	6.3300e-003	1.1400	0.0000	41.3733	41.3733	0.0134	0.0000	41.7079

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	3.9000e-004	4.8200e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.5451	1.5451	3.0000e-005	0.0000	1.5459
Total	6.2000e-004	3.9000e-004	4.8200e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.5451	1.5451	3.0000e-005	0.0000	1.5459

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					4.7245	0.0000	4.7245	0.5101	0.0000	0.5101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0116	0.2269	0.2767	4.7000e-004	4.7245	9.6800e-003	9.6800e-003	9.6800e-003	9.6800e-003	0.0000	41.3733	41.3733	0.0134	0.0000	41.7078		
Total	0.0116	0.2269	0.2767	4.7000e-004	4.7245	9.6800e-003	4.7342	0.5101	9.6800e-003	0.5198	0.0000	41.3733	41.3733	0.0134	0.0000	41.7078	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	6.2000e-004	3.9000e-004	4.8200e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.5451	1.5451	3.0000e-005	0.0000	1.5459	
Total	6.2000e-004	3.9000e-004	4.8200e-003	2.0000e-005	2.0600e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.5451	1.5451	3.0000e-005	0.0000	1.5459	

Salton Sea - South Coast AQMD Air District, Summer

Salton Sea
South Coast AQMD Air District, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1,540.00	Acre	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	15			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - No operational emissions would be expected

Construction Phase - No building construction

Off-road Equipment - Equipment as provided

Grading - Total acres for PP 19800

Construction Off-road Equipment Mitigation - Engine Tier 4 for all engines

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	0.00	396.00
tblGrading	AcresOfGrading	396.00	19,800.00
tblLandUse	LandUseSquareFeet	67,082,400.00	0.00
tblLandUse	LotAcreage	1,540.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.8463	16.8583	16.1420	0.0393	53.1927	0.7098	53.9024	5.7699	0.6530	6.4229	0.0000	3,804.045	3,804.045	1.1841	0.0000	3,833.646
											0	0				9
2024	1.7858	15.7134	15.9164	0.0392	53.1927	0.6573	53.8500	5.7699	0.6047	6.3746	0.0000	3,798.591	3,798.591	1.1837	0.0000	3,828.182
											1	1				3

2025	1.6308	13.3614	15.2109	0.0391	53.1927	0.5512	53.7439	5.7699	0.5071	6.2771	0.0000	3,791.763 9	3,791.763 9	1.1830	0.0000	3,821.339 9
Maximum	1.8463	16.8583	16.1420	0.0393	53.1927	0.7098	53.9024	5.7699	0.6530	6.4229	0.0000	3,804.045 0	3,804.045 0	1.1841	0.0000	3,833.646 9

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day												lb/day			
2023	0.9808	18.1826	22.6218	0.0393	24.0289	0.7759	24.8048	2.6209	0.7758	3.3967	0.0000	3,804.045 0	3,804.045 0	1.1841	0.0000	3,833.646 9
2024	0.9778	18.1796	22.5900	0.0392	24.0289	0.7759	24.8048	2.6209	0.7758	3.3967	0.0000	3,798.591 1	3,798.591 1	1.1837	0.0000	3,828.182 3
2025	0.9752	18.1770	22.5582	0.0391	24.0289	0.7759	24.8048	2.6209	0.7758	3.3967	0.0000	3,791.763 9	3,791.763 9	1.1830	0.0000	3,821.339 9
Maximum	0.9808	18.1826	22.6218	0.0393	24.0289	0.7759	24.8048	2.6209	0.7758	3.3967	0.0000	3,804.045 0	3,804.045 0	1.1841	0.0000	3,833.646 9
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	44.25	-18.74	-43.37	0.00	54.83	-21.34	53.92	54.58	-31.88	46.58	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2023	2/4/2025	5	396	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 19800

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	1	0.00	81	0.73
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					53.0250	0.0000	53.0250	5.7255	0.0000	5.7255			0.0000			0.0000
Off-Road	1.7904	16.8248	15.6594	0.0377		0.7086	0.7086		0.6519	0.6519		3,649.855	3,649.855	1.1804		3,679.366
Total	1.7904	16.8248	15.6594	0.0377	53.0250	0.7086	53.7336	5.7255	0.6519	6.3774		3,649.855	3,649.855	1.1804		3,679.366

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455	154.1895	154.1895	3.6400e-003	154.2806			
Total	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.8613	0.0000	23.8613	2.5765	0.0000	2.5765	0.0000	0.0000			0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,649.855	3,649.855	1.1804		3,679.366
Total	0.9250	18.1490	22.1392	0.0377	23.8613	0.7747	24.6360	2.5765	0.7747	3.3512	0.0000	3,649.855	3,649.855	1.1804		3,679.366
												5	5			4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day												lb/day							
	Hauling	Vendor	Worker	Total	Hauling	Vendor	Worker	Total	Hauling	Vendor	Worker	Total	Hauling	Vendor	Worker	Total	Hauling	Vendor	Worker	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806				
Total	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806				

3.2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					53.0250	0.0000	53.0250	5.7255	0.0000	5.7255			0.0000			0.0000	
Off-Road	1.7330	15.6828	15.4656	0.0377		0.6561	0.6561		0.6036	0.6036		3,649.459 7	3,649.459 7	1.1803		3,678.967 5	
Total	1.7330	15.6828	15.4656	0.0377	53.0250	0.6561	53.6812	5.7255	0.6036	6.3291		3,649.459 7	3,649.459 7	1.1803		3,678.967 5	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		149.1313	149.1313	3.3400e-003		149.2148	

Total	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455			149.1313	149.1313	3.3400e-003			149.2148
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					23.8613	0.0000	23.8613	2.5765	0.0000	2.5765			0.0000				0.0000
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,649.459	3,649.459	1.1803			3,678.967
Total	0.9250	18.1490	22.1392	0.0377	23.8613	0.7747	24.6360	2.5765	0.7747	3.3512	0.0000	3,649.459	3,649.459	1.1803			3,678.967
											7	7	7				5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	lb/day										lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000		0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000		0.0000	
Worker	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455			149.1313	149.1313	3.3400e-003			149.2148
Total	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455			149.1313	149.1313	3.3400e-003			149.2148

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					53.0250	0.0000	53.0250	5.7255	0.0000	5.7255			0.0000			0.0000	
Off-Road	1.5806	13.3335	14.7919	0.0377		0.5501	0.5501		0.5061	0.5061		3,648.503	3,648.503	1.1800			3,678.003
Total	1.5806	13.3335	14.7919	0.0377	53.0250	0.5501	53.5751	5.7255	0.5061	6.2316		3,648.503	3,648.503	1.1800			3,678.003
											3	3				3	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0502	0.0280	0.4190	1.4400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		143.2606	143.2606	3.0400e-003			143.3366
Total	0.0502	0.0280	0.4190	1.4400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		143.2606	143.2606	3.0400e-003			143.3366

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					23.8613	0.0000	23.8613	2.5765	0.0000	2.5765			0.0000			0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747		3,648.503	3,648.503	1.1800			3,678.003
											3	3				3	

Total	0.9250	18.1490	22.1392	0.0377	23.8613	0.7747	24.6360	2.5765	0.7747	3.3512	0.0000	3,648.503 3	3,648.503 3	1.1800		3,678.003 3
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0502	0.0280	0.4190	1.4400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	143.2606	143.2606	3.0400e-003		143.3366	
Total	0.0502	0.0280	0.4190	1.4400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		143.2606	143.2606	3.0400e-003		143.3366

Salton Sea - South Coast AQMD Air District, Winter

Salton Sea
South Coast AQMD Air District, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1,540.00	Acre	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	15			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - No operational emissions would be expected

Construction Phase - No building construction

Off-road Equipment - Equipment as provided

Grading - Total acres for PP 19800

Construction Off-road Equipment Mitigation - Engine Tier 4 for all engines

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	0.00	396.00
tblGrading	AcresOfGrading	396.00	19,800.00
tblLandUse	LandUseSquareFeet	67,082,400.00	0.00
tblLandUse	LotAcreage	1,540.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.8518	16.8615	16.0914	0.0392	53.1927	0.7098	53.9024	5.7699	0.6530	6.4229	0.0000	3,794.049	3,794.049	1.1838	0.0000	3,823.645
											9	9			5	
2024	1.7912	15.7162	15.8684	0.0391	53.1927	0.6573	53.8500	5.7699	0.6047	6.3746	0.0000	3,788.903	3,788.903	1.1834	0.0000	3,818.488
											1	1			4	

2025	1.6361	13.3640	15.1658	0.0390	53.1927	0.5512	53.7439	5.7699	0.5071	6.2771	0.0000	3,782.453 8	3,782.453 8	1.1828	0.0000	3,812.024 4
Maximum	1.8518	16.8615	16.0914	0.0392	53.1927	0.7098	53.9024	5.7699	0.6530	6.4229	0.0000	3,794.049 9	3,794.049 9	1.1838	0.0000	3,823.645 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day												lb/day			
2023	0.9864	18.1857	22.5712	0.0392	24.0289	0.7759	24.8048	2.6209	0.7758	3.3967	0.0000	3,794.049 9	3,794.049 9	1.1838	0.0000	3,823.645 5
2024	0.9832	18.1824	22.5420	0.0391	24.0289	0.7759	24.8048	2.6209	0.7758	3.3967	0.0000	3,788.903 1	3,788.903 1	1.1834	0.0000	3,818.488 4
2025	0.9805	18.1796	22.5132	0.0390	24.0289	0.7759	24.8048	2.6209	0.7758	3.3967	0.0000	3,782.453 8	3,782.453 8	1.1828	0.0000	3,812.024 4
Maximum	0.9864	18.1857	22.5712	0.0392	24.0289	0.7759	24.8048	2.6209	0.7758	3.3967	0.0000	3,794.049 9	3,794.049 9	1.1838	0.0000	3,823.645 5
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	44.12	-18.73	-43.50	0.00	54.83	-21.34	53.92	54.58	-31.88	46.58	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2023	2/4/2025	5	396	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

Grading	Concrete/Industrial Saws	1	0.00	81	0.73
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					53.0250	0.0000	53.0250	5.7255	0.0000	5.7255			0.0000			0.0000
Off-Road	1.7904	16.8248	15.6594	0.0377		0.7086	0.7086		0.6519	0.6519		3,649.855	3,649.855	1.1804		3,679.366
Total	1.7904	16.8248	15.6594	0.0377	53.0250	0.7086	53.7336	5.7255	0.6519	6.3774		3,649.855	3,649.855	1.1804		3,679.366

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Worker	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792	
Total	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust						23.8613	0.0000	23.8613	2.5765	0.0000	2.5765		0.0000			0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,649.855	3,649.855	1.1804		3,679.366	
Total	0.9250	18.1490	22.1392	0.0377	23.8613	0.7747	24.6360	2.5765	0.7747	3.3512	0.0000	3,649.855	3,649.855	1.1804		3,679.366	
												5	5				4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792	
Total	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792	

3.2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					53.0250	0.0000	53.0250	5.7255	0.0000	5.7255			0.0000			0.0000
Off-Road	1.7330	15.6828	15.4656	0.0377		0.6561	0.6561		0.6036	0.6036		3,649.459 7	3,649.459 7	1.1803		3,678.967 5
Total	1.7330	15.6828	15.4656	0.0377	53.0250	0.6561	53.6812	5.7255	0.6036	6.3291		3,649.459 7	3,649.459 7	1.1803		3,678.967 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		139.4434	139.4434	3.1000e-003		139.5209
Total	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		139.4434	139.4434	3.1000e-003		139.5209

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					23.8613	0.0000	23.8613	2.5765	0.0000	2.5765			0.0000			0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,649.459 7	3,649.459 7	1.1803		3,678.967 5	
Total	0.9250	18.1490	22.1392	0.0377	23.8613	0.7747	24.6360	2.5765	0.7747	3.3512	0.0000	3,649.459 7	3,649.459 7	1.1803		3,678.967 5	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455			139.4434	139.4434	3.1000e-003	139.5209	
Total	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455			139.4434	139.4434	3.1000e-003	139.5209	

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					

Fugitive Dust					53.0250	0.0000	53.0250	5.7255	0.0000	5.7255			0.0000			0.0000	
Off-Road	1.5806	13.3335	14.7919	0.0377		0.5501	0.5501		0.5061	0.5061		3,648.503	3,648.503	1.1800			3,678.003
Total	1.5806	13.3335	14.7919	0.0377	53.0250	0.5501	53.5751	5.7255	0.5061	6.2316		3,648.503	3,648.503	1.1800			3,678.003

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0555	0.0306	0.3740	1.3400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	133.9505	133.9505	2.8300e-003			134.0212	
Total	0.0555	0.0306	0.3740	1.3400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		133.9505	133.9505	2.8300e-003			134.0212

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					23.8613	0.0000	23.8613	2.5765	0.0000	2.5765			0.0000			0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,648.503	3,648.503	1.1800			3,678.003
Total	0.9250	18.1490	22.1392	0.0377	23.8613	0.7747	24.6360	2.5765	0.7747	3.3512	0.0000	3,648.503	3,648.503	1.1800			3,678.003

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0555	0.0306	0.3740	1.3400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	133.9505	133.9505	2.8300e-003			134.0212
Total	0.0555	0.0306	0.3740	1.3400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	133.9505	133.9505	2.8300e-003			134.0212

Salton Sea - Alternative 5 - South Coast AQMD Air District, Annual

Salton Sea - Alternative 5
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	48,704.00	Acre	48,704.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	15			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - No operational emissions would be expected

Construction Phase - No building construction

Off-road Equipment - Equipment as provided

Grading - Total acres for PP 48,704

Construction Off-road Equipment Mitigation - Engine Tier 3 average for all engines

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	15,500.00	974.00
tblGrading	AcresOfGrading	974.00	48,704.00
tblLandUse	LandUseSquareFeet	2,121,546,240.00	0.00
tblSolidWaste	SolidWasteGenerationRate	4,188.54	132.44
tblWater	OutdoorWaterUseRate	58,029,907,653.86	1,834,881,278.48

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	tons/yr											MT/yr					
2023	0.1006	0.9190	0.8777	2.1300e-003	25.8343	0.0387	25.8730	2.7909	0.0356	2.8265	0.0000	187.7061	187.7061	0.0585	0.0000	189.1694	
2024	0.2339	2.0590	2.0804	5.1200e-003	25.8469	0.0861	25.9330	2.7943	0.0792	2.8735	0.0000	450.5628	450.5628	0.1406	0.0000	454.0789	
2025	0.2128	1.7441	1.9807	5.1000e-003	25.8468	0.0719	25.9187	2.7942	0.0662	2.8604	0.0000	448.0684	448.0684	0.1400	0.0000	451.5693	
2026	0.2125	1.7438	1.9774	5.0900e-003	25.8468	0.0719	25.9187	2.7942	0.0662	2.8604	0.0000	447.4965	447.4965	0.1400	0.0000	450.9967	
2027	0.0659	0.5411	0.6128	1.5800e-003	25.8320	0.0223	25.8543	2.7903	0.0205	2.8108	0.0000	138.7217	138.7217	0.0434	0.0000	139.8078	

Maximum	0.2339	2.0590	2.0804	5.1200e-003	25.8469	0.0861	25.9330	2.7943	0.0792	2.8735	0.0000	450.5628	450.5628	0.1406	0.0000	454.0789
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0534	0.9912	1.2308	2.1300e-003	11.6304	0.0423	11.6726	1.2572	0.0423	1.2995	0.0000	187.7059	187.7059	0.0585	0.0000	189.1692
2024	0.1280	2.3820	2.9546	5.1200e-003	11.6430	0.1016	11.7446	1.2606	0.1016	1.3622	0.0000	450.5623	450.5623	0.1406	0.0000	454.0784
2025	0.1272	2.3725	2.9395	5.1000e-003	11.6429	0.1013	11.7441	1.2605	0.1012	1.3618	0.0000	448.0679	448.0679	0.1400	0.0000	451.5688
2026	0.1269	2.3722	2.9362	5.0900e-003	11.6429	0.1013	11.7441	1.2605	0.1012	1.3618	0.0000	447.4960	447.4960	0.1400	0.0000	450.9962
2027	0.0393	0.7361	0.9103	1.5800e-003	11.6281	0.0314	11.6595	1.2566	0.0314	1.2880	0.0000	138.7216	138.7216	0.0434	0.0000	139.8076
Maximum	0.1280	2.3820	2.9546	5.1200e-003	11.6430	0.1016	11.7446	1.2606	0.1016	1.3622	0.0000	450.5623	450.5623	0.1406	0.0000	454.0784

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	42.48	-26.36	-45.73	0.00	54.97	-29.86	54.78	54.92	-41.12	53.11	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)					Maximum Mitigated ROG + NOX (tons/quarter)				
1	8-1-2023	10-31-2023	0.6147					0.6297				
2	11-1-2023	1-31-2024	0.6015					0.6299				
3	2-1-2024	4-30-2024	0.5626					0.6160				
4	5-1-2024	7-31-2024	0.5750					0.6295				
5	8-1-2024	10-31-2024	0.5751					0.6295				
6	11-1-2024	1-31-2025	0.5475					0.6297				
7	2-1-2025	4-30-2025	0.4767					0.6089				
8	5-1-2025	7-31-2025	0.4926					0.6293				
9	8-1-2025	10-31-2025	0.4927					0.6294				

10	11-1-2025	1-31-2026	0.4928	0.6295
11	2-1-2026	4-30-2026	0.4766	0.6088
12	5-1-2026	7-31-2026	0.4925	0.6291
13	8-1-2026	10-31-2026	0.4925	0.6292
14	11-1-2026	1-31-2027	0.4927	0.6293
15	2-1-2027	4-30-2027	0.4390	0.5608
		Highest	0.6147	0.6299

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2023	4/23/2027	5	974	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	1	0.00	81	0.73
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					25.8253	0.0000	25.8253	2.7885	0.0000	2.7885	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0976	0.9170	0.8534	2.0500e-003		0.0386	0.0386		0.0355	0.0355	0.0000	180.4546	180.4546	0.0584	0.0000	181.9136	
Total	0.0976	0.9170	0.8534	2.0500e-003	25.8253	0.0386	25.8639	2.7885	0.0355	2.8241	0.0000	180.4546	180.4546	0.0584	0.0000	181.9136	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.0100e-003	2.0600e-003	0.0243	8.0000e-005	8.9700e-003	6.0000e-005	9.0300e-003	2.3800e-003	6.0000e-005	2.4400e-003	0.0000	7.2515	7.2515	1.7000e-004	0.0000	7.2558	
Total	3.0100e-003	2.0600e-003	0.0243	8.0000e-005	8.9700e-003	6.0000e-005	9.0300e-003	2.3800e-003	6.0000e-005	2.4400e-003	0.0000	7.2515	7.2515	1.7000e-004	0.0000	7.2558	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					11.6214	0.0000	11.6214	1.2548	0.0000	1.2548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0504	0.9891	1.2066	2.0500e-003		0.0422	0.0422		0.0422	0.0422	0.0000	180.4544	180.4544	0.0584	0.0000	181.9134	
Total	0.0504	0.9891	1.2066	2.0500e-003	11.6214	0.0422	11.6636	1.2548	0.0422	1.2971	0.0000	180.4544	180.4544	0.0584	0.0000	181.9134	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	3.0100e-003	2.0600e-003	0.0243	8.0000e-005	8.9700e-003	6.0000e-005	9.0300e-003	2.3800e-003	6.0000e-005	2.4400e-003	0.0000	7.2515	7.2515	1.7000e-004	0.0000	7.2558	
Total	3.0100e-003	2.0600e-003	0.0243	8.0000e-005	8.9700e-003	6.0000e-005	9.0300e-003	2.3800e-003	6.0000e-005	2.4400e-003	0.0000	7.2515	7.2515	1.7000e-004	0.0000	7.2558	

3.2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					25.8253	0.0000	25.8253	2.7885	0.0000	2.7885	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.2270	2.0544	2.0260	4.9400e-003		0.0860	0.0860		0.0791	0.0791	0.0000	433.7062	433.7062	0.1403	0.0000	437.2129	

Total	0.2270	2.0544	2.0260	4.9400e-003	25.8253	0.0860	25.9113	2.7885	0.0791	2.8676	0.0000	433.7062	433.7062	0.1403	0.0000	437.2129
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr											MT/yr				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	6.8600e-003	4.5100e-003	0.0544	1.9000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8600e-003	0.0000	16.8566	16.8566	3.8000e-004	0.0000	16.8660
Total	6.8600e-003	4.5100e-003	0.0544	1.9000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8600e-003	0.0000	16.8566	16.8566	3.8000e-004	0.0000	16.8660

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr											MT/yr				
Fugitive Dust					11.6214	0.0000	11.6214	1.2548	0.0000	1.2548	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.1212	2.3775	2.9002	4.9400e-003		0.1015	0.1015		0.1015	0.1015	0.0000	433.7057	433.7057	0.1403	0.0000	437.2124
Total	0.1212	2.3775	2.9002	4.9400e-003	11.6214	0.1015	11.7229	1.2548	0.1015	1.3563	0.0000	433.7057	433.7057	0.1403	0.0000	437.2124

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	6.8600e-003	4.5100e-003	0.0544	1.9000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8600e-003	0.0000	16.8566	16.8566	3.8000e-004	0.0000	16.8660	
Total	6.8600e-003	4.5100e-003	0.0544	1.9000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8600e-003	0.0000	16.8566	16.8566	3.8000e-004	0.0000	16.8660	

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust							25.8253	0.0000	25.8253	2.7885	0.0000	2.7885	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.2063	1.7400	1.9303	4.9200e-003		0.0718	0.0718		0.0661	0.0661	0.0000	431.9376	431.9376	0.1397	0.0000	435.4300	
Total	0.2063	1.7400	1.9303	4.9200e-003	25.8253	0.0718	25.8971	2.7885	0.0661	2.8546	0.0000	431.9376	431.9376	0.1397	0.0000	435.4300	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Worker	6.5000e-003	4.1000e-003	0.0503	1.8000e-004	0.0215	1.5000e-004	0.0216	5.7000e-003	1.4000e-004	5.8400e-003	0.0000	16.1308	16.1308	3.4000e-004	0.0000	16.1393
Total	6.5000e-003	4.1000e-003	0.0503	1.8000e-004	0.0215	1.5000e-004	0.0216	5.7000e-003	1.4000e-004	5.8400e-003	0.0000	16.1308	16.1308	3.4000e-004	0.0000	16.1393

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr											MT/yr				
Fugitive Dust					11.6214	0.0000	11.6214	1.2548	0.0000	1.2548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1207	2.3684	2.8892	4.9200e-003		0.1011	0.1011		0.1011	0.1011	0.0000	431.9371	431.9371	0.1397	0.0000	435.4295
Total	0.1207	2.3684	2.8892	4.9200e-003	11.6214	0.1011	11.7225	1.2548	0.1011	1.3559	0.0000	431.9371	431.9371	0.1397	0.0000	435.4295

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr											MT/yr				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-003	4.1000e-003	0.0503	1.8000e-004	0.0215	1.5000e-004	0.0216	5.7000e-003	1.4000e-004	5.8400e-003	0.0000	16.1308	16.1308	3.4000e-004	0.0000	16.1393
Total	6.5000e-003	4.1000e-003	0.0503	1.8000e-004	0.0215	1.5000e-004	0.0216	5.7000e-003	1.4000e-004	5.8400e-003	0.0000	16.1308	16.1308	3.4000e-004	0.0000	16.1393

3.2 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	tons/yr												MT/yr					
Fugitive Dust					25.8253	0.0000	25.8253	2.7885	0.0000	2.7885	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.2063	1.7400	1.9303	4.9200e-003		0.0718	0.0718		0.0661	0.0661	0.0000	431.9376	431.9376	0.1397	0.0000	435.4300		
Total	0.2063	1.7400	1.9303	4.9200e-003	25.8253	0.0718	25.8971	2.7885	0.0661	2.8546	0.0000	431.9376	431.9376	0.1397	0.0000	435.4300		

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	tons/yr												MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	6.2100e-003	3.7800e-003	0.0470	1.7000e-004	0.0215	1.4000e-004	0.0216	5.7000e-003	1.3000e-004	5.8300e-003	0.0000	15.5589	15.5589	3.1000e-004	0.0000	15.5667		
Total	6.2100e-003	3.7800e-003	0.0470	1.7000e-004	0.0215	1.4000e-004	0.0216	5.7000e-003	1.3000e-004	5.8300e-003	0.0000	15.5589	15.5589	3.1000e-004	0.0000	15.5667		

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	tons/yr												MT/yr					
Fugitive Dust					11.6214	0.0000	11.6214	1.2548	0.0000	1.2548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Off-Road	0.1207	2.3684	2.8892	4.9200e-003		0.1011	0.1011		0.1011	0.1011	0.0000	431.9371	431.9371	0.1397	0.0000	435.4295
Total	0.1207	2.3684	2.8892	4.9200e-003	11.6214	0.1011	11.7225	1.2548	0.1011	1.3559	0.0000	431.9371	431.9371	0.1397	0.0000	435.4295

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr											MT/yr				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	6.2100e-003	3.7800e-003	0.0470	1.7000e-004	0.0215	1.4000e-004	0.0216	5.7000e-003	1.3000e-004	5.8300e-003	0.0000	15.5589	15.5589	3.1000e-004	0.0000	15.5667
Total	6.2100e-003	3.7800e-003	0.0470	1.7000e-004	0.0215	1.4000e-004	0.0216	5.7000e-003	1.3000e-004	5.8300e-003	0.0000	15.5589	15.5589	3.1000e-004	0.0000	15.5667

3.2 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr											MT/yr				
Fugitive Dust					25.8253	0.0000	25.8253	2.7885	0.0000	2.7885	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0640	0.5400	0.5991	1.5300e-003		0.0223	0.0223		0.0205	0.0205	0.0000	134.0496	134.0496	0.0434	0.0000	135.1335
Total	0.0640	0.5400	0.5991	1.5300e-003	25.8253	0.0223	25.8476	2.7885	0.0205	2.8090	0.0000	134.0496	134.0496	0.0434	0.0000	135.1335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	tons/yr												MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.8400e-003	1.0800e-003	0.0137	5.0000e-005	6.6700e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	4.6721	4.6721	9.0000e-005	0.0000	4.6744		
Total	1.8400e-003	1.0800e-003	0.0137	5.0000e-005	6.6700e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	4.6721	4.6721	9.0000e-005	0.0000	4.6744		

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	tons/yr												MT/yr					
Fugitive Dust						11.6214	0.0000	11.6214	1.2548	0.0000	1.2548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0375	0.7350	0.8966	1.5300e-003		0.0314	0.0314		0.0314	0.0314	0.0000	134.0494	134.0494	0.0434	0.0000	135.1333		
Total	0.0375	0.7350	0.8966	1.5300e-003	11.6214	0.0314	11.6528	1.2548	0.0314	1.2862	0.0000	134.0494	134.0494	0.0434	0.0000	135.1333		

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	tons/yr												MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.0800e-003	0.0137	5.0000e-005	6.6700e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	4.6721	4.6721	9.0000e-005	0.0000	4.6744
Total	1.8400e-003	1.0800e-003	0.0137	5.0000e-005	6.6700e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	4.6721	4.6721	9.0000e-005	0.0000	4.6744

Salton Sea - Alternative 5 - South Coast AQMD Air District, Summer

Salton Sea - Alternative 5
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	48,704.00	Acre	48,704.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	15			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - No operational emissions would be expected

Construction Phase - No building construction

Off-road Equipment - Equipment as provided

Grading - Total acres for PP 48,704

Construction Off-road Equipment Mitigation - Engine Tier 3 average for all engines

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	15,500.00	974.00
tbGrading	AcresOfGrading	974.00	48,704.00
tblLandUse	LandUseSquareFeet	2,121,546,240.00	0.00
tblSolidWaste	SolidWasteGenerationRate	4,188.54	132.44
tblWater	OutdoorWaterUseRate	58,029,907,653.86	1,834,881,278.48

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.8463	16.8583	16.1420	0.0393	53.1970	0.7098	53.9068	5.7704	0.6530	6.4234	0.0000	3,804.045	3,804.045	1.1841	0.0000	3,833.646
2024	1.7858	15.7134	15.9164	0.0392	53.1970	0.6573	53.8543	5.7704	0.6047	6.3751	0.0000	3,798.591	3,798.591	1.1837	0.0000	3,828.182
2025	1.6308	13.3614	15.2109	0.0391	53.1970	0.5512	53.7483	5.7704	0.5071	6.2775	0.0000	3,791.763	3,791.763	1.1830	0.0000	3,821.339
2026	1.6285	13.3592	15.1838	0.0391	53.1970	0.5512	53.7482	5.7704	0.5071	6.2775	0.0000	3,786.691	3,786.691	1.1828	0.0000	3,816.260
2027	1.6262	13.3572	15.1597	0.0390	53.1970	0.5511	53.7482	5.7704	0.5070	6.2774	0.0000	3,782.222	3,782.222	1.1826	0.0000	3,811.766

Maximum	1.8463	16.8583	16.1420	0.0393	53.1970	0.7098	53.9068	5.7704	0.6530	6.4234	0.0000	3,804.045 0	3,804.045 0	1.1841	0.0000	3,833.646 9
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.9808	18.1826	22.6218	0.0393	24.0309	0.7759	24.8068	2.6211	0.7758	3.3969	0.0000	3,804.045 0	3,804.045 0	1.1841	0.0000	3,833.646 9
2024	0.9778	18.1796	22.5900	0.0392	24.0309	0.7759	24.8068	2.6211	0.7758	3.3969	0.0000	3,798.591 1	3,798.591 1	1.1837	0.0000	3,828.182 3
2025	0.9752	18.1770	22.5582	0.0391	24.0309	0.7759	24.8067	2.6211	0.7758	3.3969	0.0000	3,791.763 9	3,791.763 9	1.1830	0.0000	3,821.339 9
2026	0.9729	18.1747	22.5311	0.0391	24.0309	0.7758	24.8067	2.6211	0.7757	3.3969	0.0000	3,786.691 1	3,786.691 1	1.1828	0.0000	3,816.260 7
2027	0.9706	18.1727	22.5070	0.0390	24.0309	0.7758	24.8067	2.6211	0.7757	3.3968	0.0000	3,782.222 2	3,782.222 2	1.1826	0.0000	3,811.786 1
Maximum	0.9808	18.1826	22.6218	0.0393	24.0309	0.7759	24.8068	2.6211	0.7758	3.3969	0.0000	3,804.045 0	3,804.045 0	1.1841	0.0000	3,833.646 9
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	42.74	-25.10	-45.35	0.00	54.83	-28.43	53.89	54.58	-39.58	46.30	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2023	4/23/2027	5	974	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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Grading	Concrete/Industrial Saws	1	0.00	81	0.73
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					53.0294	0.0000	53.0294	5.7259	0.0000	5.7259			0.0000			0.0000
Off-Road	1.7904	16.8248	15.6594	0.0377		0.7086	0.7086		0.6519	0.6519		3,649.855	3,649.855	1.1804		3,679.366
Total	1.7904	16.8248	15.6594	0.0377	53.0294	0.7086	53.7380	5.7259	0.6519	6.3778		3,649.855	3,649.855	1.1804		3,679.366
												5	5			4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455	154.1895	154.1895	3.6400e-003	154.2806			
Total	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455	154.1895	154.1895	3.6400e-003	154.2806			

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					23.8632	0.0000	23.8632	2.5767	0.0000	2.5767	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,649.855	3,649.855	1.1804		3,679.366	
Total	0.9250	18.1490	22.1392	0.0377	23.8632	0.7747	24.6380	2.5767	0.7747	3.3514	0.0000	3,649.855	3,649.855	1.1804		3,679.366	
												5	5			4	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806
Total	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806

3.2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					53.0294	0.0000	53.0294	5.7259	0.0000	5.7259			0.0000		0.0000	
Off-Road	1.7330	15.6828	15.4656	0.0377		0.6561	0.6561		0.6036	0.6036		3,649.459	3,649.459	1.1803		3,678.967
Total	1.7330	15.6828	15.4656	0.0377	53.0294	0.6561	53.6855	5.7259	0.6036	6.3296		3,649.459	3,649.459	1.1803		3,678.967
											7	7	7			5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		149.1313	149.1313	3.3400e-003		149.2148
Total	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		149.1313	149.1313	3.3400e-003		149.2148

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					23.8632	0.0000	23.8632	2.5767	0.0000	2.5767			0.0000			0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,649.4597	3,649.4597	1.1803		3,678.9675	
Total	0.9250	18.1490	22.1392	0.0377	23.8632	0.7747	24.6380	2.5767	0.7747	3.3514	0.0000	3,649.4597	3,649.4597	1.1803		3,678.9675	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455			149.1313	149.1313	3.3400e-003	149.2148	
Total	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455			149.1313	149.1313	3.3400e-003	149.2148	

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					53.0294	0.0000	53.0294	5.7259	0.0000	5.7259			0.0000			0.0000	

Off-Road	1.5806	13.3335	14.7919	0.0377		0.5501	0.5501		0.5061	0.5061		3,648.503	3,648.503	1.1800		3,678.003	3
Total	1.5806	13.3335	14.7919	0.0377	53.0294	0.5501	53.5795	5.7259	0.5061	6.2320		3,648.503	3,648.503	1.1800		3,678.003	3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0502	0.0280	0.4190	1.4400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	143.2606	143.2606	3.0400e-003			143.3366
Total	0.0502	0.0280	0.4190	1.4400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	143.2606	143.2606	3.0400e-003			143.3366

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					23.8632	0.0000	23.8632	2.5767	0.0000	2.5767	0.0000	0.0000	2.5767	0.0000	0.0000	0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,648.503	3,648.503	1.1800		3,678.003	3
Total	0.9250	18.1490	22.1392	0.0377	23.8632	0.7747	24.6380	2.5767	0.7747	3.3514	0.0000	3,648.503	3,648.503	1.1800		3,678.003	3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0502	0.0280	0.4190	1.4400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	143.2606	143.2606	3.0400e-003	143.3366			
Total	0.0502	0.0280	0.4190	1.4400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	143.2606	143.2606	3.0400e-003	143.3366			

3.2 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					53.0294	0.0000	53.0294	5.7259	0.0000	5.7259	0.0000	0.0000			0.0000		
Off-Road	1.5806	13.3335	14.7919	0.0377		0.5501	0.5501		0.5061	0.5061	3,648.503	3,648.503	1.1800		3,678.003	3	
Total	1.5806	13.3335	14.7919	0.0377	53.0294	0.5501	53.5795	5.7259	0.5061	6.2320	3,648.503	3,648.503	1.1800			3,678.003	
											3	3				3	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0479	0.0258	0.3919	1.3900e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0100e-003	0.0455		138.1878	138.1878	2.7900e-003		138.2575
Total	0.0479	0.0258	0.3919	1.3900e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0100e-003	0.0455		138.1878	138.1878	2.7900e-003		138.2575

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.8632	0.0000	23.8632	2.5767	0.0000	2.5767			0.0000			0.0000
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,648.503	3,648.503	1.1800		3,678.003
Total	0.9250	18.1490	22.1392	0.0377	23.8632	0.7747	24.6380	2.5767	0.7747	3.3514	0.0000	3,648.503	3,648.503	1.1800		3,678.003

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0479	0.0258	0.3919	1.3900e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0100e-003	0.0455		138.1878	138.1878	2.7900e-003		138.2575
Total	0.0479	0.0258	0.3919	1.3900e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0100e-003	0.0455		138.1878	138.1878	2.7900e-003		138.2575

3.2 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					53.0294	0.0000	53.0294	5.7259	0.0000	5.7259			0.0000			0.0000	
Off-Road	1.5806	13.3335	14.7919	0.0377		0.5501	0.5501		0.5061	0.5061		3,648.503 3	3,648.503 3	1.1800		3,678.003 3	
Total	1.5806	13.3335	14.7919	0.0377	53.0294	0.5501	53.5795	5.7259	0.5061	6.2320		3,648.503 3	3,648.503 3	1.1800		3,678.003 3	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0457	0.0238	0.3678	1.3400e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		133.7189	133.7189	2.5600e-003		133.7828	
Total	0.0457	0.0238	0.3678	1.3400e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		133.7189	133.7189	2.5600e-003		133.7828	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					23.8632	0.0000	23.8632	2.5767	0.0000	2.5767			0.0000			0.0000	

Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,648.503	3,648.503	1.1800		3,678.003	3
Total	0.9250	18.1490	22.1392	0.0377	23.8632	0.7747	24.6380	2.5767	0.7747	3.3514	0.0000	3,648.503	3,648.503	1.1800		3,678.003	3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0457	0.0238	0.3678	1.3400e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454	133.7189	133.7189	2.5600e-003			133.7828
Total	0.0457	0.0238	0.3678	1.3400e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454	133.7189	133.7189	2.5600e-003			133.7828

Salton Sea - Alternative 5 - South Coast AQMD Air District, Winter

Salton Sea - Alternative 5
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	48,704.00	Acre	48,704.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	15			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - No operational emissions would be expected

Construction Phase - No building construction

Off-road Equipment - Equipment as provided

Grading - Total acres for PP 48,704

Construction Off-road Equipment Mitigation - Engine Tier 3 average for all engines

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	15,500.00	974.00
tblGrading	AcresOfGrading	974.00	48,704.00
tblLandUse	LandUseSquareFeet	2,121,546,240.00	0.00
tblSolidWaste	SolidWasteGenerationRate	4,188.54	132.44
tblWater	OutdoorWaterUseRate	58,029,907,653.86	1,834,881,278.48

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.8518	16.8615	16.0914	0.0392	53.1970	0.7098	53.9068	5.7704	0.6530	6.4234	0.0000	3,794.049	3,794.049	1.1838	0.0000	3,823.645
2024	1.7912	15.7162	15.8684	0.0391	53.1970	0.6573	53.8543	5.7704	0.6047	6.3751	0.0000	3,788.903	3,788.903	1.1834	0.0000	3,818.488
2025	1.6361	13.3640	15.1658	0.0390	53.1970	0.5512	53.7483	5.7704	0.5071	6.2775	0.0000	3,782.453	3,782.453	1.1828	0.0000	3,812.024
2026	1.6337	13.3616	15.1413	0.0390	53.1970	0.5512	53.7482	5.7704	0.5071	6.2775	0.0000	3,777.703	3,777.703	1.1826	0.0000	3,807.268
2027	1.6313	13.3594	15.1194	0.0389	53.1970	0.5511	53.7482	5.7704	0.5070	6.2774	0.0000	3,773.514	3,773.514	1.1824	0.0000	3,803.073

Maximum	1.8518	16.8615	16.0914	0.0392	53.1970	0.7098	53.9068	5.7704	0.6530	6.4234	0.0000	3,794.049 9	3,794.049 9	1.1838	0.0000	3,823.645 5
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.9864	18.1857	22.5712	0.0392	24.0309	0.7759	24.8068	2.6211	0.7758	3.3969	0.0000	3,794.049 9	3,794.049 9	1.1838	0.0000	3,823.645 5
2024	0.9832	18.1824	22.5420	0.0391	24.0309	0.7759	24.8068	2.6211	0.7758	3.3969	0.0000	3,788.903 1	3,788.903 1	1.1834	0.0000	3,818.488 4
2025	0.9805	18.1796	22.5132	0.0390	24.0309	0.7759	24.8067	2.6211	0.7758	3.3969	0.0000	3,782.453 8	3,782.453 8	1.1828	0.0000	3,812.024 4
2026	0.9781	18.1771	22.4886	0.0390	24.0309	0.7758	24.8067	2.6211	0.7757	3.3969	0.0000	3,777.703 9	3,777.703 9	1.1826	0.0000	3,807.268 5
2027	0.9757	18.1749	22.4667	0.0389	24.0309	0.7758	24.8067	2.6211	0.7757	3.3968	0.0000	3,773.514 4	3,773.514 4	1.1824	0.0000	3,803.073 7
Maximum	0.9864	18.1857	22.5712	0.0392	24.0309	0.7759	24.8068	2.6211	0.7758	3.3969	0.0000	3,794.049 9	3,794.049 9	1.1838	0.0000	3,823.645 5
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	42.60	-25.10	-45.48	0.00	54.83	-28.43	53.89	54.58	-39.58	46.30	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2023	4/23/2027	5	974	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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Grading	Concrete/Industrial Saws	1	0.00	81	0.73
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rubber Tired Dozers	1	0.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					53.0294	0.0000	53.0294	5.7259	0.0000	5.7259			0.0000			0.0000
Off-Road	1.7904	16.8248	15.6594	0.0377		0.7086	0.7086		0.6519	0.6519		3,649.855	3,649.855	1.1804		3,679.366
Total	1.7904	16.8248	15.6594	0.0377	53.0294	0.7086	53.7380	5.7259	0.6519	6.3778		3,649.855	3,649.855	1.1804		3,679.366

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455	144.1945	144.1945	3.3900e-003	144.2792			
Total	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455	144.1945	144.1945	3.3900e-003	144.2792			

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					23.8632	0.0000	23.8632	2.5767	0.0000	2.5767	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,649.855	3,649.855	1.1804		3,679.366	
Total	0.9250	18.1490	22.1392	0.0377	23.8632	0.7747	24.6380	2.5767	0.7747	3.3514	0.0000	3,649.855	3,649.855	1.1804		3,679.366	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792
Total	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792

3.2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					53.0294	0.0000	53.0294	5.7259	0.0000	5.7259			0.0000		0.0000	
Off-Road	1.7330	15.6828	15.4656	0.0377		0.6561	0.6561		0.6036	0.6036		3,649.459	3,649.459	1.1803		3,678.967
Total	1.7330	15.6828	15.4656	0.0377	53.0294	0.6561	53.6855	5.7259	0.6036	6.3296		3,649.459	3,649.459	1.1803		3,678.967
											7	7				5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		139.4434	139.4434	3.1000e-003		139.5209
Total	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		139.4434	139.4434	3.1000e-003		139.5209

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					23.8632	0.0000	23.8632	2.5767	0.0000	2.5767			0.0000			0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,649.4597	3,649.4597	1.1803		3,678.9675	
Total	0.9250	18.1490	22.1392	0.0377	23.8632	0.7747	24.6380	2.5767	0.7747	3.3514	0.0000	3,649.4597	3,649.4597	1.1803		3,678.9675	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455			139.4434	139.4434	3.1000e-003	139.5209	
Total	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455			139.4434	139.4434	3.1000e-003	139.5209	

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					53.0294	0.0000	53.0294	5.7259	0.0000	5.7259			0.0000			0.0000	

Off-Road	1.5806	13.3335	14.7919	0.0377		0.5501	0.5501		0.5061	0.5061		3,648.503	3,648.503	1.1800		3,678.003	3
Total	1.5806	13.3335	14.7919	0.0377	53.0294	0.5501	53.5795	5.7259	0.5061	6.2320		3,648.503	3,648.503	1.1800		3,678.003	3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0555	0.0306	0.3740	1.3400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	133.9505	133.9505	2.8300e-003			134.0212
Total	0.0555	0.0306	0.3740	1.3400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	133.9505	133.9505	2.8300e-003			134.0212

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					23.8632	0.0000	23.8632	2.5767	0.0000	2.5767	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,648.503	3,648.503	1.1800		3,678.003	3
Total	0.9250	18.1490	22.1392	0.0377	23.8632	0.7747	24.6380	2.5767	0.7747	3.3514	0.0000	3,648.503	3,648.503	1.1800		3,678.003	3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0555	0.0306	0.3740	1.3400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	133.9505	133.9505	2.8300e-003	134.0212			
Total	0.0555	0.0306	0.3740	1.3400e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455	133.9505	133.9505	2.8300e-003	134.0212			

3.2 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					53.0294	0.0000	53.0294	5.7259	0.0000	5.7259	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5806	13.3335	14.7919	0.0377		0.5501	0.5501		0.5061	0.5061	3,648.503 3	3,648.503 3	1.1800		3,678.003 3	
Total	1.5806	13.3335	14.7919	0.0377	53.0294	0.5501	53.5795	5.7259	0.5061	6.2320	3,648.503 3	3,648.503 3	1.1800			3,678.003 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0531	0.0282	0.3494	1.3000e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0100e-003	0.0455		129.2006	129.2006	2.5900e-003		129.2653
Total	0.0531	0.0282	0.3494	1.3000e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0100e-003	0.0455		129.2006	129.2006	2.5900e-003		129.2653

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.8632	0.0000	23.8632	2.5767	0.0000	2.5767			0.0000			0.0000
Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,648.503	3,648.503	1.1800		3,678.003
Total	0.9250	18.1490	22.1392	0.0377	23.8632	0.7747	24.6380	2.5767	0.7747	3.3514	0.0000	3,648.503	3,648.503	1.1800		3,678.003

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Worker	0.0531	0.0282	0.3494	1.3000e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0100e-003	0.0455		129.2006	129.2006	2.5900e-003		129.2653
Total	0.0531	0.0282	0.3494	1.3000e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0100e-003	0.0455		129.2006	129.2006	2.5900e-003		129.2653

3.2 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					53.0294	0.0000	53.0294	5.7259	0.0000	5.7259			0.0000			0.0000	
Off-Road	1.5806	13.3335	14.7919	0.0377		0.5501	0.5501		0.5061	0.5061		3,648.503	3,648.503	1.1800		3,678.003	3
Total	1.5806	13.3335	14.7919	0.0377	53.0294	0.5501	53.5795	5.7259	0.5061	6.2320		3,648.503	3,648.503	1.1800		3,678.003	3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Worker	0.0508	0.0260	0.3275	1.2500e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		125.0111	125.0111	2.3700e-003		125.0704	
Total	0.0508	0.0260	0.3275	1.2500e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		125.0111	125.0111	2.3700e-003		125.0704	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					23.8632	0.0000	23.8632	2.5767	0.0000	2.5767			0.0000			0.0000	

Off-Road	0.9250	18.1490	22.1392	0.0377		0.7747	0.7747		0.7747	0.7747	0.0000	3,648.503	3,648.503	1.1800		3,678.003	3
Total	0.9250	18.1490	22.1392	0.0377	23.8632	0.7747	24.6380	2.5767	0.7747	3.3514	0.0000	3,648.503	3,648.503	1.1800		3,678.003	3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0508	0.0260	0.3275	1.2500e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454	125.0111	125.0111	2.3700e-003			125.0704
Total	0.0508	0.0260	0.3275	1.2500e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454	125.0111	125.0111	2.3700e-003			125.0704

Appendix 1-D-2 Salton Sea Air Basin Exceedances

Table D-2-1 Salton Sea Air Basin O₃ Exceedances (2010–2019)

Year				1-Hour Maximums		8-Hour Averages			
	State		National	State Max	State DV	State Max	State DV	Nat. Max	Nat. DV
	1-hour	8-hour	8-hour	ppm	ppm	ppm	ppm	ppm	ppm
2019	10	63	59	0.106	0.11	0.089	0.099	0.089	0.089
2018	13	81	77	0.111	0.11	0.099	0.099	0.099	0.091
2017	23	78	73	0.122	0.11	0.097	0.097	0.097	0.088
2016	12	61	58	0.108	0.10	0.092	0.093	0.092	0.087
2015 ¹	6	58	54/30?	0.106	0.10	0.093	0.094	0.092	0.088
2014	14	71	38	0.108	0.11	0.094	0.101	0.093	0.091
2013	20	89	53	0.113	0.11	0.104	0.101	0.104	0.092
2012	27	93	58	0.126	0.12	0.101	0.101	0.100	0.092
2011	29	81	59	0.124	0.12	0.099	0.099	0.098	0.093
2010	31	94	63	0.149	0.12	0.099	0.101	0.099	0.095

Sources: CARB 2020 Nat Ozone, CARB 2020 State Ozone

Table D-2-2 Salton Sea Air Basin PM₁₀ Exceedances (2010–2019)

Year	Estimated Days over Standard	Annual Averages		3-Year Averages		24-Hour Maximum	
		State	µg/m ³	State	µg/m ³	National	µg/m ³
	State	µg/m ³	µg/m ³	State	µg/m ³	State	µg/m ³
2019	112.0	44.5		52		324.4	323.5
2018	113.0	51.5		52		422.3	419.0
2017	81.5	41.7		59		477.6	425.0
2016	135.7	54.2		54		732.9	265.8
2015	128.2	46.5		51		381.0	406.1
2014	183.7	58.7		64		471.8	477.6
2013	145.8	52.3		64		359.3	385.7
2012	210.0	63.7		64		406.2	387.3
2011	93.4	40.9		65		396.9	324.0
2010	55.0	37.7		65		144.8	117.3

Sources: CARB 2020 PM10

Table D-2-3 Salton Sea Air Basin PM_{2.5} Exceedances (2010–2019)

Year	Annual Averages				2006 National 24-Hour Standard			24-Hour Maximum	
	Nat.	Nat. DV	State	State DV	98 th %	Nat. DV	Est. Days Over	National	State
	µg/m ³	µg/m ³		µg/m ³	µg/m ³				
2019	10.7	9.4	9.5	10	27.0	33	1.1	53.1	53.1
2018	10.4	10.4	10.4	13	40.1	35	6.1	90.6	90.6
2017	11.9	12.0	9.4	13	30.7	31	5.5	49.1	187.5
2016	12.5	12.6	12.9	13	34.2	33	5.9	57.9	57.9
2015	11.6	12.9	6.6	13	27.6	31	3.5	87.1	102.7
2014	13.8	7.5	7.3	14	38.6	20	9.9	51.7	58.9
2013	13.3	7.7	13.3	14	27.4	22	3.0	36.3	36.3
2012	8.1	7.2	14.2	14	22.7	20	0.0	64.7	64.7
2011	7.5	7.4	12.7	13	29.4	20	6.2	80.3	80.3
2010	12.8	7.7	6.6	17	31.7	32	6.3	50.9	50.9

Source: CARB 2020 PM2.5

Appendix 1-D-3 Air Resources Calculations

Figure D-3-1 Emissions from Proposed Project

Acreage 19800	Days 396	Months 13.20	Years 1.10	Emissions Factors lbs/hp/hr ⁽¹⁾					Emissions lbs/day					Emissions, tons/yr					Emissions total (tons)							
Vehicle	Engine Size (HP)	Hours/day		CO	NO _x	SO _x	PM10 (b)	CO2 (c)	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5
Challenger Tractor - wheeled	396	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	21.16	98.21	6.49	6.97	3643.20	5.23	3.86	17.92	1.19	1.27	664.88	0.95	4.25	19.72	1.30	1.40	731.37	1.05
Backhoe - tracked	49	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	2.62	12.15	0.80	0.86	450.80	0.65	0.48	2.22	0.15	0.16	82.27	0.12	0.53	2.44	0.16	0.17	90.50	0.13
Water Truck - wheeled	300	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	16.03	74.40	4.92	5.28	2760.00	3.96	2.93	13.58	0.90	0.96	503.70	0.72	3.22	14.94	0.99	1.05	554.07	0.79
Sno-Cat - tracked	173	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	9.25	42.90	2.84	3.04	1591.60	2.28	1.69	7.83	0.52	0.56	290.47	0.42	1.86	8.61	0.57	0.61	319.51	0.46
Light Duty pickup truck	215	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	11.49	53.32	3.53	3.78	1978.00	2.84	2.10	9.73	0.64	0.69	360.99	0.52	2.31	10.70	0.71	0.76	397.08	0.57
Total									60.55	280.98	18.58	19.94	10423.60	14.96	8.95	41.55	2.75	2.95	1541.32	2.21	9.85	45.70	3.02	3.24	1695.45	2.43

(1) AP-42, Vol I, 3.3: Gasoline And Diesel Industrial Engines

Figure D-3-2 Emissions from Alternative 1: Max Lake Edge

Acreage 25690	Days 513.8	Months 17.13	Years 1.43	Emissions Factors lbs/hp/hr ⁽¹⁾					Emissions lbs/day					Emissions, tons/yr					Emissions total (tons)							
Vehicle	Engine Size (HP)	Hours/day		CO	NO _x	SO _x	PM10 (b)	CO2 (c)	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5
Challenger Tractor - wheeled	396	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	21.16	98.21	6.49	6.97	3643.20	5.23	3.86	17.92	1.19	1.27	664.88	0.95	5.51	25.58	1.69	1.82	948.94	1.36
Backhoe - tracked	49	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	2.62	12.15	0.80	0.86	450.80	0.65	0.48	2.22	0.15	0.16	82.27	0.12	0.68	3.17	0.21	0.22	117.42	0.17
Water Truck - wheeled	300	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	16.03	74.40	4.92	5.28	2760.00	3.96	2.93	13.58	0.90	0.96	503.70	0.72	4.18	19.38	1.28	1.38	718.89	1.03
Sno-Cat - tracked	173	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	9.25	42.90	2.84	3.04	1591.60	2.28	1.69	7.83	0.52	0.56	290.47	0.42	2.41	11.18	0.74	0.79	414.56	0.59
Light Duty pickup truck	215	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	11.49	53.32	3.53	3.78	1978.00	2.84	2.10	9.73	0.64	0.69	360.99	0.52	2.99	13.89	0.92	0.99	515.21	0.74
Total									60.55	280.98	18.58	19.94	10423.60	14.96	8.95	41.55	2.75	2.95	1541.32	2.21	12.78	59.30	3.92	4.21	2199.81	3.16

Figure D-3-3 Emissions from Alternative 2: Enhance & Expand Exist Wetlands

Acreage 25690	Days 513.8	Months 17.13	Years 1.43	Emissions Factors lbs/hp/hr ⁽¹⁾					Emissions lbs/day					Emissions, tons/yr					Emissions total (tons)							
Vehicle	Engine Size (HP)	Hours/day		CO	NO _x	SO _x	PM10 (b)	CO2 (c)	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5
Challenger Tractor - wheeled	396	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	21.16	98.21	6.49	6.97	3643.20	5.23	3.86	17.92	1.19	1.27	664.88	0.95	5.51	25.58	1.69	1.82	948.94	1.36
Backhoe - tracked	49	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	2.62	12.15	0.80	0.86	450.80	0.65	0.48	2.22	0.15	0.16	82.27	0.12	0.68	3.17	0.21	0.22	117.42	0.17
Water Truck - wheeled	300	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	16.03	74.40	4.92	5.28	2760.00	3.96	2.93	13.58	0.90	0.96	503.70	0.72	4.18	19.38	1.28	1.38	718.89	1.03
Sno-Cat - tracked	173	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	9.25	42.90	2.84	3.04	1591.60	2.28	1.69	7.83	0.52	0.56	290.47	0.42	2.41	11.18	0.74	0.79	414.56	0.59
Light Duty pickup truck	215	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	11.49	53.32	3.53	3.78	1978.00	2.84	2.10	9.73	0.64	0.69	360.99	0.52	2.99	13.89	0.92	0.99	515.21	0.74
Total									60.55	280.98	18.58	19.94	10423.60	14.96	8.95	41.55	2.75	2.95	1541.32	2.21	12.78	59.30	3.92	4.21	2199.81	3.16

Figure D-3-5 Emissions from Alternative 4: Water Conservation

Acreage 25690	Days 513.8	Months 17.13	Years 1.43	Emissions Factors lbs/hp/hr ⁽¹⁾					Emissions lbs/day					Emissions, tons/yr					Emissions total (tons)							
Vehicle	Engine Size (HP)	Hours/day		CO	NO _x	SO _x	PM10 (b)	CO2 (c)	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5
Challenger Tractor - wheeled	396	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	21.16	98.21	6.49	6.97	3643.20	5.23	3.86	17.92	1.19	1.27	664.88	0.95	5.51	25.58	1.69	1.82	948.94	1.36
Backhoe - tracked	49	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	2.62	12.15	0.80	0.86	450.80	0.65	0.48	2.22	0.15	0.16	82.27	0.12	0.68	3.17	0.21	0.22	117.42	0.17
Water Truck - wheeled	300	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	16.03	74.40	4.92	5.28	2760.00	3.96	2.93	13.58	0.90	0.96	503.70	0.72	4.18	19.38	1.28	1.38	718.89	1.03
Sno-Cat - tracked	173	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	9.25	42.90	2.84	3.04	1591.60	2.28	1.69	7.83	0.52	0.56	290.47	0.42	2.41	11.18	0.74	0.79	414.56	0.59
Light Duty pickup truck	215	8		6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	11.49	53.32	3.53	3.78	1978.00	2.84	2.10	9.73	0.64	0.69	360.99	0.52	2.99	13.89	0.92	0.99	515.21	0.74
Total									60.55	280.98	18.58	19.94	10423.60	14.96	8.95	41.55	2.75	2.95	1541.32	2.21	12.78	59.30	3.92	4.21	2199.81	3.16

(1) AP-42, Vol I, 3.3: Gasoline And Diesel Industrial Engines

Figure D-3-6 Emissions from Alternative 5: Max Buildout

Acreage 48704	Days 974.08	Months 32.47	Years 2.71	Emissions Factors lbs/hp/hr⁽¹⁾					Emissions lbs/day					Emissions, tons/yr					Emissions total (tons)				
Vehicle	Engine Size (HP)	Hours/day		CO	NO_x	SO_x	PM10 (b)	CO2 (c)	CO	NO_x	SO_x	PM10	CO2	PM2.5	CO	NO_x	SO_x	PM10	CO2	PM2.5			
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Figure D-3-7 Emissions from Alternative 6: No Federal Action

Vehicle	Engine Size (HP)	Hours/day	Emissions Factors lbs/hp/hr ⁽¹⁾					Emissions lbs/day					Emissions, tons/yr					Emissions total (tons)							
			CO	NO _x	SO _x	PM10 (b)	CO2 (c)	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5
Challenger Tractor - wheeled	396	8	6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe - tracked	49	8	6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water Truck - wheeled	300	8	6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sno-Cat - tracked	173	8	6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Light Duty pickup truck	215	8	6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total								0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

(1) AP-42, VoI, 3.3: Gasoline And Diesel Industrial Engines

Figure D-3-8 Emissions from Alternative 7: No Action

Vehicle	Engine Size (HP)	Hours/day	Emissions Factors lbs/hp/hr ⁽¹⁾					Emissions lbs/day					Emissions, tons/yr					Emissions total (tons)							
			CO	NO _x	SO _x	PM10 (b)	CO2 (c)	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5	CO	NO _x	SO _x	PM10	CO2	PM2.5
Challenger Tractor - wheeled	396	0	6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Backhoe - tracked	49	0	6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Truck - wheeled	300	0	6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sno-Cat - tracked	173	0	6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Light Duty pickup truck	215	0	6.68E-03	3.10E-02	2.05E-03	2.20E-03	1.15E+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total								0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

(1) USEPA AP-42, VoI, 3.3: Gasoline And Diesel Industrial Engines

GHG Emissions Factors**Table D-3-1 Mobile Combustion CO2 for Non-Road Vehicles**

Equipment type	Emission Factor CO2
Diesel powered equipment	10.21 kg/gallon

* U.S. EPA Center for Corporate Climate Leadership – GHG Inventory Guidance

Appendix A: Default CO2 Emission Factors

Table A-1: Emission Factors for Equation 1 (EF1) - Emissions per Mass or Volume Unit for Fossil Fuel Combustion

Table D-3-2 Mobile Combustion CH4 and N2O for Non-Road Vehicles *

Equipment type	Emission Factor CH4	Emission Factor N2O
Diesel Ag equipment	0.29 grams/gallon	.49 grams/gallon
Ag Offroad Trucks	0.13 grams/gallon	.49 grams/gallon

* U.S. EPA Center for Corporate Climate Leadership – GHG Inventory Guidance

Appendix B: Default CH4 and N2O Emission Factors

Table B-8: CH4 and N2O Emission Factors for Non-Road Vehicles

Table D-3-3 Equipment List*

Equipment	Model	Horsepower	Fuel
Challenger Tractor - wheeled	Challenger Model 1038	396 hp	diesel
Backhoe - tracked	JCB Model 1CXT	49 hp	diesel
Water Truck - wheeled	Ford F-750 2,000 gal	300 hp	diesel
Snow Cat - tracked/w implements: Plow, sweep, chisel, roller, spike tooth, spring-harrow, packer, sheepfoot imprinter, triangular imprinter.	Caterpillar Sno-Cat Model 1600A	173 hp	diesel

Table D-3-4 Ground Disturbance*

Activity	Ground Disturbance
agronomic earthworks	50 acres/day
hand placement of items	2 acres/day

*Information obtained from email correspondence - Melinda Dorin, DWR, to Steven Garcia, DMR 6/22/21

Table D-3-5 List of typical construction equipment*

Equipment Type	Implement Name	Example Implement Model	Anticipated Use Rating
Deep Tillage	Bullplow - Ditchplow	Yonkers and Johnson Model:400	Frequent
Shallow Tillage	Switchplow - Reversible Plow	Maschio Model: Micro	Semi-Frequent
Land Leveling	Pull Type Ejector Scraper	John Deere Model: 2412DE	In-Frequent
Ripping / Grubbing	Deep Ripper	Agrowplow Model: AP91	Rare
Clearing	Track Bulldozer - Crawler Dozer	John Deere Model: 750L Dozer	Rare
Minor Cleaning	Crawler Backhoe Loader	JCB Model 1CXT	Rare
Water or Surfactant Spreading	Water Truck - Water Tender	Ford Model: F-750 2,000 Gallon	Semi-Frequent

*From DSAP Section 2.3.3, Table 2

SSMP Dust Suppression Action Plan (DSAP)

Assumptions:

Assume 8 hour days

Individual set of assumptions for each Alternative (ie all equipment used or select)

Equipment list is based on typical equipment used for earth moving activities similar to those expected in the construction of various Alternatives

Time of construction is determined by dividing the total acreage impacted by the number of acres per day maximum to determine months and years of activity

Table D-4 Fugitive Emissions from Construction Activities*

Emission Source <u>Construction</u>	Approximate Disturbed Area (acres)	Construction Time (months)	Disturbed Area (acre/month)	TSP Emission Factor (tons/acre/month of activity)	Silt Plus Clay Fraction (%)	PM10 Emissions (tons/year)	PM10 Project total emissions (tons)
20 construction sites	1540	24	64.166667	1.2	90	69.3	
Total (tons/year)						69.3	138.6

*Construction particulate Matter (PM₁₀) emission factor obtained from USEPA AP-42, Section 13.2.3.3

138.6 tons total
277200 lb total
11550 lbs/mo
385 lbs/day

Notes:

Disturbed area values based on information provided by DWP (email correspondence Melinda Dorin, DWR to Steven Garcia, DMR 6/22/21)